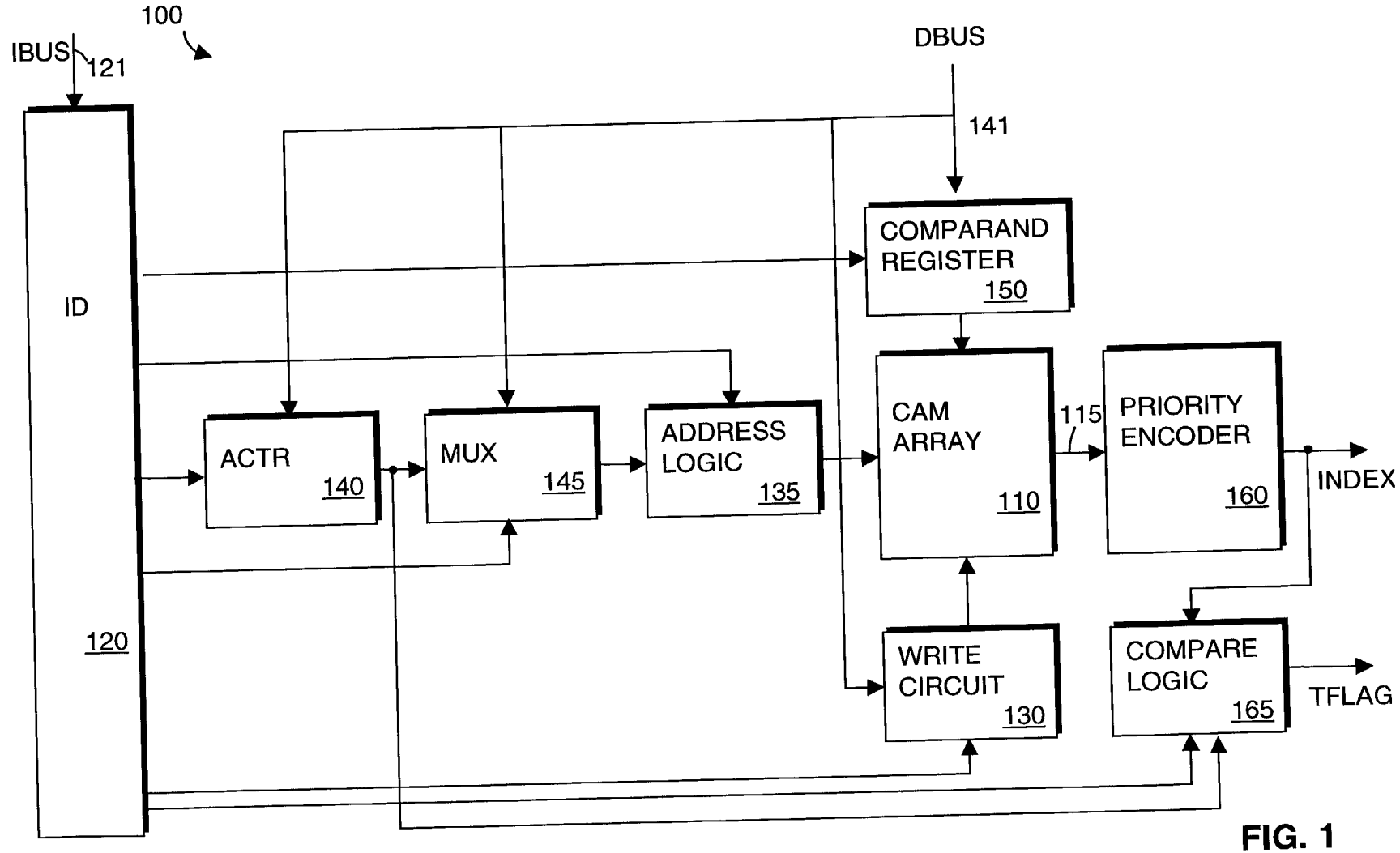
100
IBUS
121
DBUS
141
ID
120
COMPARAND REGISTER 150
ACTR 140
MUX 145
ADDRESS LOGIC 135
CAM ARRAY 110
115
PRIORITY ENCODER 160
INDEX
WRITE CIRCUIT 130
COMPARE LOGIC 165
TFLAG

FIG. 1

Attorney Docket No. 42390P4004

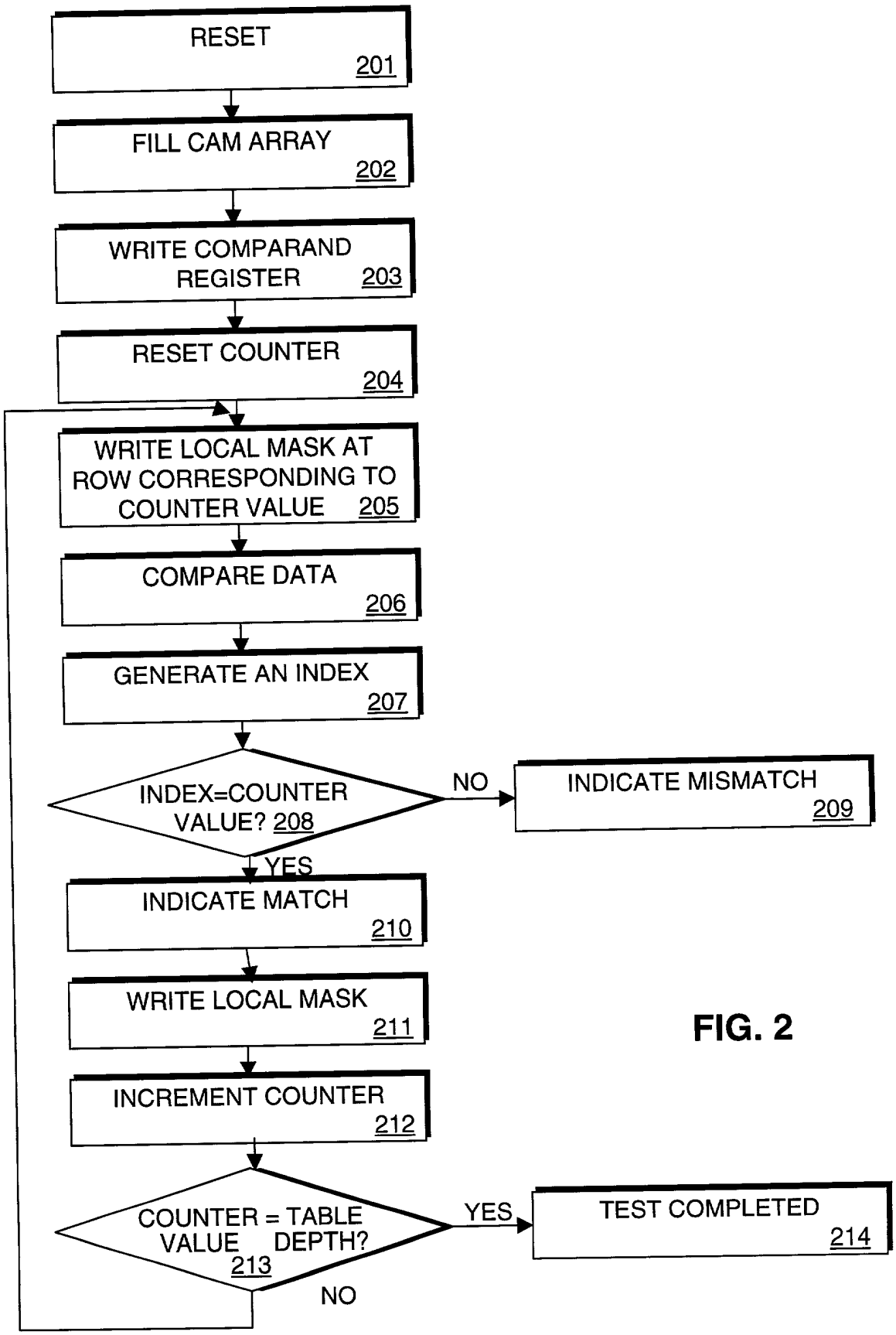

FIG. 2

6024h0001

```
RESET ACTR                                  301

LOOP (TABLE DEPTH)                          302
    WRITE LOCAL MASK = 0000                 303
    WRITE MEMORY = 0000                     304
    INCREMENT ACTR                          305

WRITE COMPARAND = FFFF                      306

RESET ACTR                                  307

LOOP (TABLE DEPTH)                          308
    WRITE LOCAL MASK = FFFF                 309
    COMPARE                                 310
    WRITE LOCAL MASK = 0000                 311
    INCREMENT ACTR                          312
```

FIG. 3

TOTOTT"6024h0007

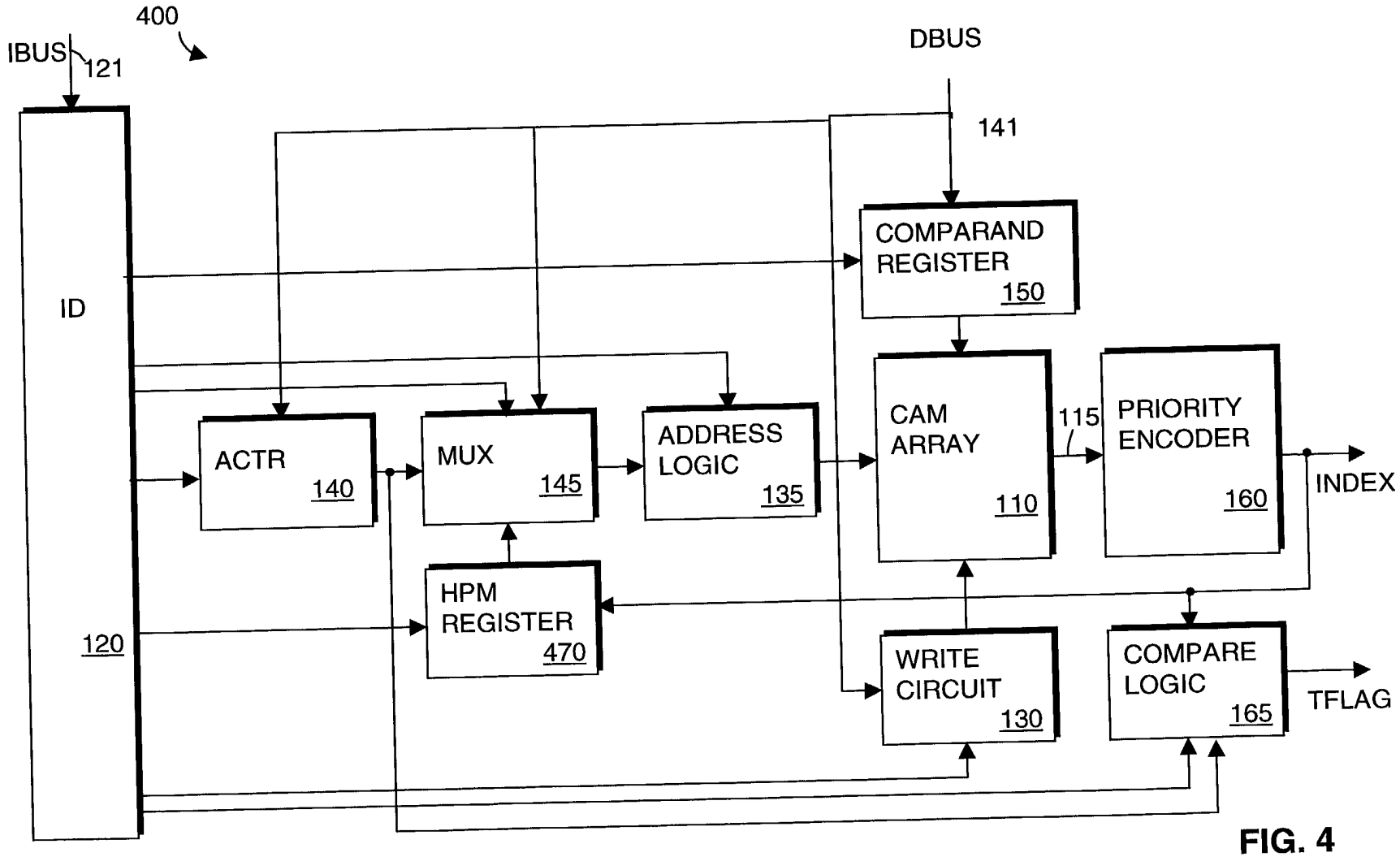

FIG. 4

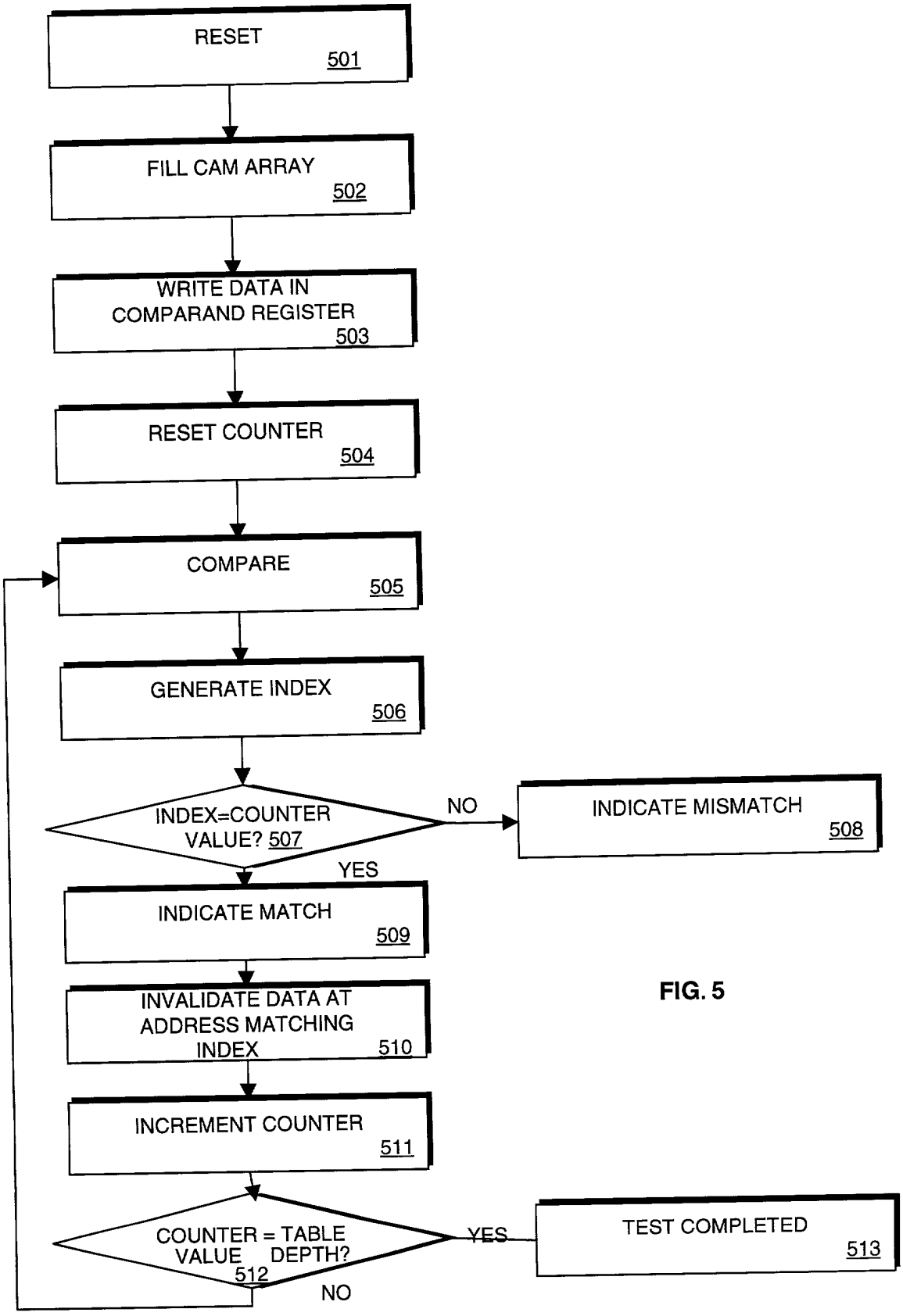
RESET
501
FILL CAM ARRAY
502
WRITE DATA IN COMPARAND REGISTER
503
RESET COUNTER
504
COMPARE
505
GENERATE INDEX
506
INDEX=COUNTER VALUE? 507
NO
INDICATE MISMATCH
508
YES
INDICATE MATCH
509
INVALIDATE DATA AT ADDRESS MATCHING INDEX
510
INCREMENT COUNTER
511
COUNTER = TABLE VALUE DEPTH? 512
YES
TEST COMPLETED
513
NO

FIG. 5

```
RESET ACTR                                  601

LOOP (TABLE DEPTH)                          602
    WRITE MEMORY =(DATA)                    603
    INCREMENT ACTR                          604

WRITE COMPARAND = (DATA)                    605

RESET ACTR                                  606

LOOP (TABLE DEPTH)                          607
    COMPARE                                 608
    SET EMPTY @ HPM                         609
    INCREMENT ACTR                          610
```

FIG. 6

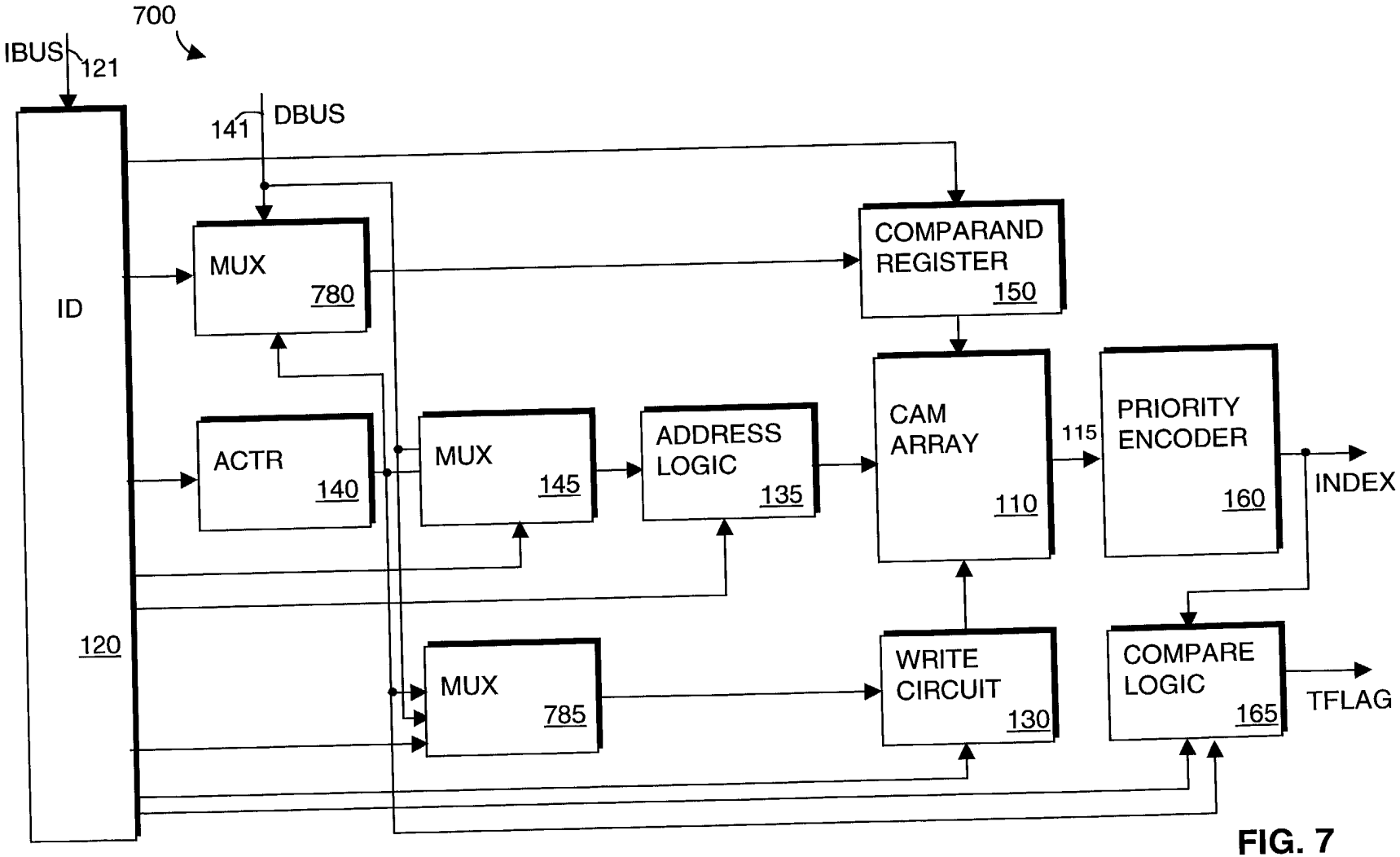
700
IBUS
121
141
DBUS
ID
120
MUX
780
ACTR
140
MUX
145
ADDRESS
LOGIC
135
MUX
785
COMPARAND
REGISTER
150
CAM
ARRAY
110
115
PRIORITY
ENCODER
160
INDEX
WRITE
CIRCUIT
130
COMPARE
LOGIC
165
TFLAG

FIG. 7

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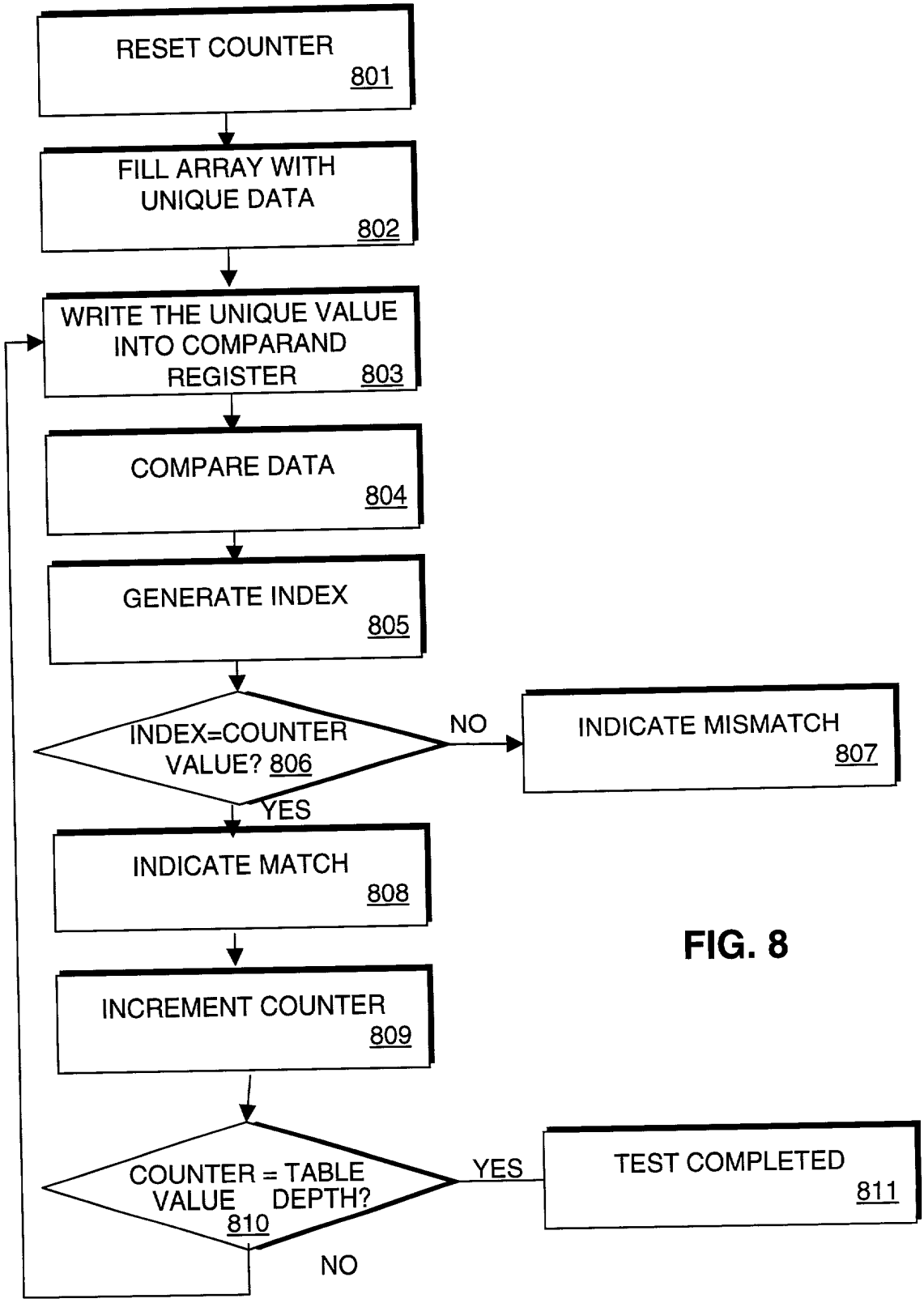

FIG. 8

```
RESET ACTR                                  901

FILL MEMORY:                                902
    WRITE ACTR TO MEMORY @ ACTR             903
    INCREMENT ACTR                          904

LOOP (TABLE DEPTH)                          905
    COPY ACTR TO COMPARAND                  906
    COMPARE                                 907
    INCREMENT ACTR                          908
```

FIG. 9

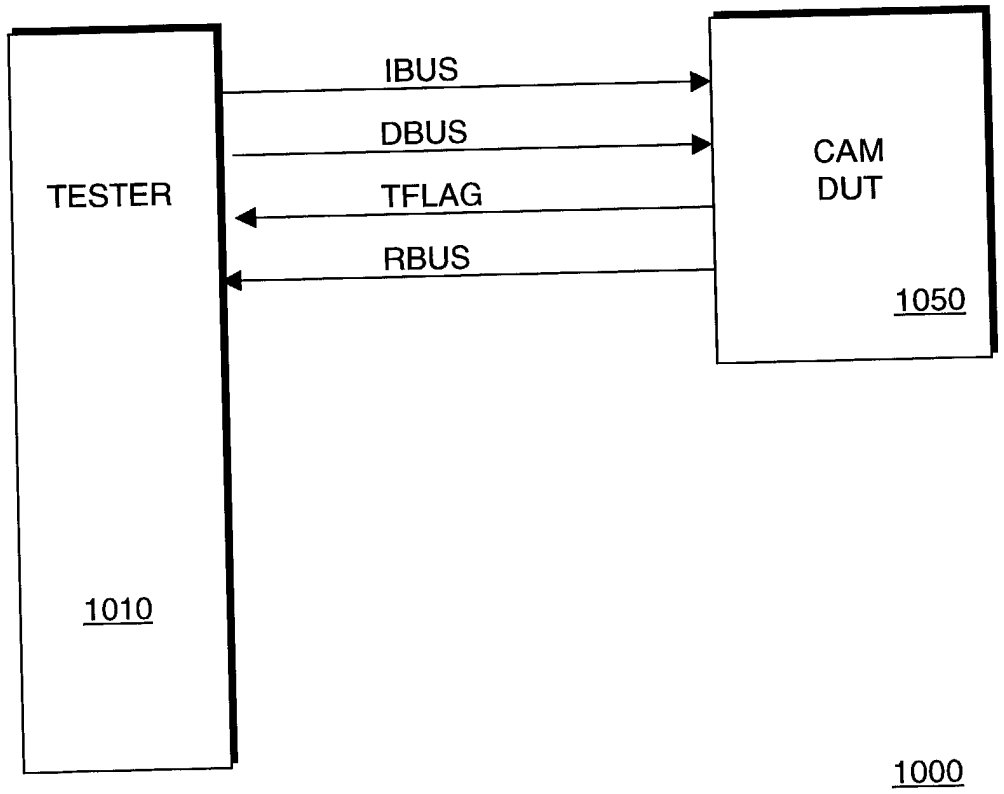

FIG. 10

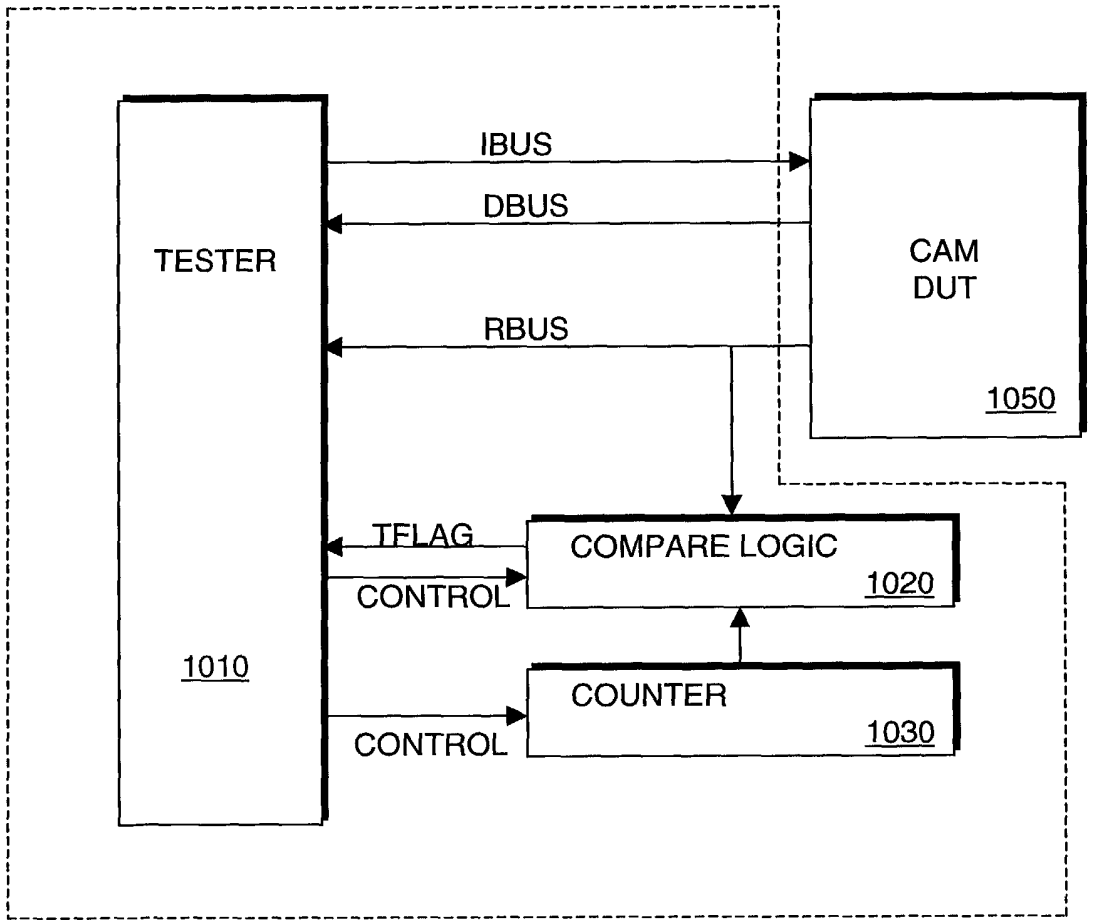
IBUS
DBUS
RBUS
TESTER
CAM
DUT
1050
TFLAG
CONTROL
COMPARE LOGIC
1020
1010
COUNTER
1030
CONTROL

FIG. 11

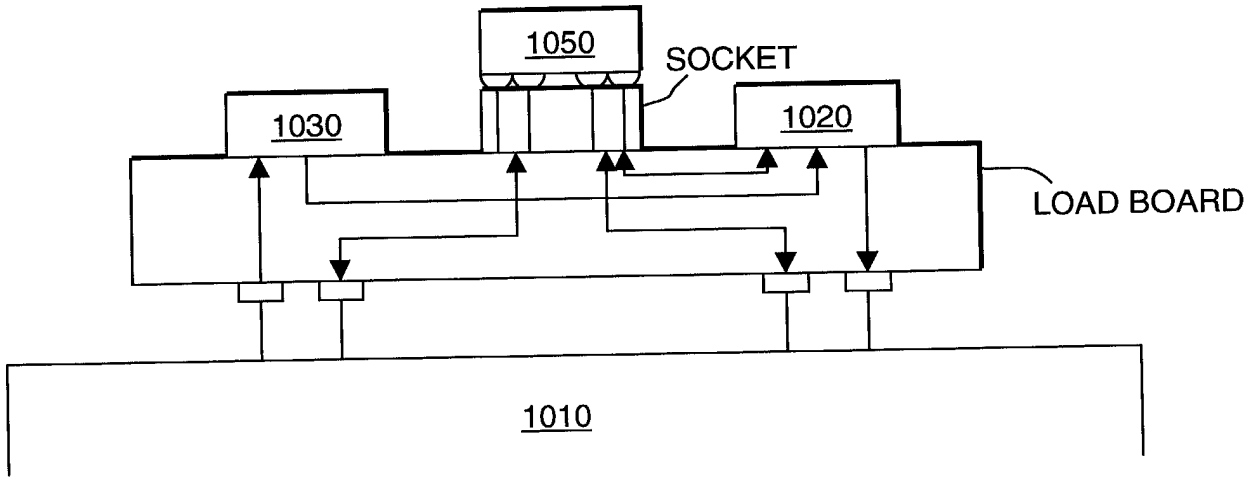

FIG. 12